

Application No. 10/815,404
Amendment dated September 23, 2004
Preliminary Amendment

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. A pharmaceutical composition comprising an immunogenic A β fragment linked to a carrier molecule to form a conjugate, wherein the carrier molecule promotes an immune response comprising antibodies to the A β fragment.
2. (Currently Amended) The pharmaceutical composition of claim 1, wherein the A β fragment is from the N-terminal half of A β .
3. (Currently Amended) The pharmaceutical of claim 2, wherein the A β fragment is A β 1-5.
4. (Currently Amended) The pharmaceutical of claim 3, wherein A β 1-5 consists of the first five N-terminal amino acids of SEQ ID NO:1.
5. (Currently Amended) The pharmaceutical of claim 2, wherein the A β fragment is A β 1-6.
6. (Currently Amended) The pharmaceutical of claim 5, wherein A β 1-6 consists of the first six N-terminal amino acids of SEQ ID NO:1.
7. (Currently Amended) The pharmaceutical of claim 2, wherein the A β fragment is A β 1-12.
8. (Currently Amended) The pharmaceutical of claim 7, wherein A β 1-12 consists of the first 12 N-terminal amino acids of SEQ ID NO:1.
9. (Currently Amended) The pharmaceutical of claim 1, wherein the carrier molecule is a diphtheria toxoid.

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10. (Currently Amended) The pharmaceutical of claim 9, wherein the diphtheria toxoid is CRM 197.

11. (Currently Amended) The pharmaceutical of claim 2, wherein the carrier molecule is a diphtheria toxoid.

12. (Currently Amended) The pharmaceutical of claim 11, wherein the diphtheria toxoid is CRM 197.

13. (Currently Amended) The pharmaceutical of claim 12, wherein the A β fragment is A β 1-5.

14. (Currently Amended) The pharmaceutical of claim 13, wherein A β 1-5 consists of the first five N-terminal amino acids of SEQ ID NO:1.

15. (Currently Amended) The pharmaceutical of claim 12, wherein the A β fragment is A β 1-6.

16. (Currently Amended) The pharmaceutical of claim 15, wherein A β 1-6 consists of the first six N-terminal amino acids of SEQ ID NO:1.

17. (Currently Amended) The pharmaceutical of claim 12, wherein the A β fragment is A β 1-12.

18. (Currently Amended) The pharmaceutical of claim 17, wherein A β 1-12 consists of the first 12 N-terminal amino acids of SEQ ID NO:1.

19. (Currently Amended) The pharmaceutical of claim 1, which comprises greater than 10 μ g of the A β fragment.

20. (Currently Amended) The pharmaceutical of claim 1, which comprises at least 20 μ g of the A β fragment.

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21. (Currently Amended) The pharmaceutical of claim 1, which comprises at least 50 μg of the A β fragment.

22. (Currently Amended) The pharmaceutical of claim 1, which comprises at least 100 μg of the A β fragment.

23. (Currently Amended) The pharmaceutical of claim 10, which comprises greater than 10 μg of the A β fragment.

24. (Currently Amended) The pharmaceutical of claim 10, which comprises at least 20 μg of the A β fragment.

25. (Currently Amended) The pharmaceutical of claim 10, which comprises at least 50 μg of the A β fragment.

26. (Currently Amended) The pharmaceutical of claim 10, which comprises at least 100 μg of the A β fragment.

27. (Currently Amended) The pharmaceutical of any one of claims 2, 3, 5, or 7, which comprises greater than 10 μg of the A β fragment.

28. (Currently Amended) The pharmaceutical of any one of claims 2, 3, 5, or 7, which comprises at least 20 μg of the A β fragment.

29. (Currently Amended) The pharmaceutical of any one of claims 2, 3, 5, or 7, which comprises at least 50 μg of the A β fragment.

30. (Currently Amended) The pharmaceutical of any one of claims 2, 3, 5, or 7, which comprises at least 100 μg of the A β fragment.

31. (New) The pharmaceutical composition of claim 1, wherein the conjugate is expressed as a fusion protein.

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32. (New) The pharmaceutical composition of claim 31, wherein the amino terminus of the A β fragment is linked to the carrier molecule.

33. (New) The pharmaceutical composition of claim 31, wherein the carboxyl terminus of the A β fragment is linked to the carrier molecule.

34. (New) The pharmaceutical composition of claim 1, wherein the A β fragment is linked to the carrier molecule by chemical crosslinking.